CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/CEMENT/2017-18 Date: 06.05.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of Work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	Cement – Sample 1
Sample Received on	:	04.05.2017
Period of Testing	:	04.05.2017 to 06.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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****

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Technical Manager

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Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/SAND-Gradation/2017-18 06.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of Work	: Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	: Fine Aggregates - Sample 1
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 04.05.2017
Date of Testing	: 06.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.20	90-100	90-100	90-100	95-100
2.36	77.20	60-95	75-100	85-100	95-100
1.18	55.20	30-70	55-90	75-100	90-100
600 Micron	27.20	15-34	35-59	60-79	80-100
300 Micron	17.00	5-20	8-30	12-40	15-50
150 Micron	6.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/AGG/GR/2017-18 06.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of Work	: Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	: Coarse Aggregates (40mm) - Sample 1
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 04.05.2017
Date of Testing	: 06.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.96	95-100	85-100
20	34.96	30-70	0-20
10	14.92	10-35	0-5
4.75	4.42	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/AGG/GR/2017-18 06.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of Work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	Coarse Aggregates (20mm) – Sample 1
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	04.05.2017
Date of Testing	:	06.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.58	95-100	85-100
10	29.08	25-55	0-20
4.75	6.62	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.12/BS/Steel/2017-18 08.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	08.05.2017

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Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	515	556	13.1	O.K	O.K

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AE-12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/W.No.12/BS/Steel/2017-18 08.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	08.05.2017

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Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	520	562	13.2	O.K	O.K

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Job No.: CTCE/BBMP/W.No.12/BS/Steel/2017-18

08.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	08.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	524	566	13.5	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18 07.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2017	07.06.2017	8.126	478.3	21.26
2	10.05.2017	07.06.2017	8.295	492.3	21.88
3	10.05.2017	07.06.2017	8.382	502.3	22.32

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Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18 07.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2017	07.06.2017	8.168	498.3	22.15
2	10.05.2017	07.06.2017	8.290	506.2	22.50
3	10.05.2017	07.06.2017	8.320	528.5	23.49

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Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18

09.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.06.2017

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2017	09.06.2017	8.139	502.2	22.32
2	12.05.2017	09.06.2017	8.250	513.2	22.81
3	12.05.2017	09.06.2017	8.350	529.6	23.54

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AE-12

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Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18 09.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2017	09.06.2017	8.299	475.5	21.13
2	12.05.2017	09.06.2017	8.359	493.6	21.94
3	12.05.2017	09.06.2017	8.405	504.7	22.43

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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T-2377

Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18 12.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.05.2017	12.06.2017	8.110	478.3	21.26
2	15.05.2017	12.06.2017	8.290	510.2	22.68
3	15.05.2017	12.06.2017	8.308	525.5	23.36

*Information is furnished by the Customer/Representative.

Note:

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18 12.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.05.2017	12.06.2017	8.190	510.2	22.68
2	15.05.2017	12.06.2017	8.250	526.8	23.41
3	15.05.2017	12.06.2017	8.395	539.9	24.00

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AE-12

VIDYARANI P.K.
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Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18 15.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2017	15.06.2017	8.159	510.2	22.68
2	18.05.2017	15.06.2017	8.299	526.3	23.39
3	18.05.2017	15.06.2017	8.382	529.6	23.54

*Information is furnished by the Customer/Representative.

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AE-13

VIDYARANI P.K.
Technical Manager

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T-2377

Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18 15.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2017	15.06.2017	8.112	510.2	22.68
2	18.05.2017	15.06.2017	8.227	520.1	23.12
3	18.05.2017	15.06.2017	8.350	539.7	23.99

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Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18 22.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	Culvert Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	22.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2017	22.06.2017	8.169	479.6	21.32
2	25.05.2017	22.06.2017	8.280	506.4	22.51
3	25.05.2017	22.06.2017	8.325	523.8	23.28

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T-2377

Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Cube/2017-18 27.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of the work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	Culvert Covering Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2017	27.06.2017	8.112	510.2	22.68
2	30.05.2017	27.06.2017	8.290	525.5	23.36
3	30.05.2017	27.06.2017	8.399	492.2	21.88

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Job No.: CTCE/BBMP/W.No.12/BS/CSR-05/327g/Precast slab/2017-18 05.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivarama,** No.4/13, 1st Cross, Avalamma Choutry, Magadi Road, Bangalore – 560 023.
* Name of work	:	Construction of RCC drain at Abbigere Janatha Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/63/2017-18 Dated: 04.05.2017
* Sample ID	:	Precast slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	01.06.2017
Date of Testing	:	05.06.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.392	2527.14	1.58	0.955	32.35	16.48	17.79	18.64	23.30
2	50.00	81.00	0.399	2508.75	1.62	0.959	33.95	17.29	18.67	17.91	22.38
3	50.00	82.00	0.406	2521.64	1.64	0.961	32.25	16.42	17.74	17.05	21.31

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